

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-27 (Cancelled)

28. (Currently Amended) A process for solution synthesis of a peptide in an organic solvent or a mixture of organic solvents, the process comprising repetitive cycles of steps (a)-(c):

wherein step(a) comprises a coupling step, using an excess of a molecule comprising an activated carboxylic component comprising at least one temporary protecting group to acylate an amino component,

wherein step (b) comprises a quenching step in which a scavenger is used to remove residual activated carboxylic functions, wherein the scavenger may also be used for deprotection of the at least one temporary protecting group on the growing peptide;

wherein step (c) comprises one or more aqueous extractions,

and wherein the process comprises at least one step (b), referred to as step (b'), in which an amine comprising a free anion or a latent anion is used as a scavenger of residual activated carboxylic functions, and wherein the anion is selected from the group consisting of carboxylate, sulfonate, sulfate, phosphonate, phosphate and phenolate.

29. (Previously Presented) The process of claim 28, wherein in step (a) the molecule comprising an activated carboxylic component is formed by reacting a carboxylic component, a coupling additive and a coupling reagent and wherein the molar amounts of the reagents used are in decreasing order:

carboxylic component, coupling additive > coupling reagent > amino component.

30. (Previously Presented) The process of claim 28, wherein in step (a) a pre-activated carboxylic component is used.

31. (Previously Presented) The process of claim 28, wherein in step (b') an amine comprising a latent anion is used as the scavenger.

32. (Previously Presented) The process of claim 31, wherein the latent anion in the scavenging amine bears a temporary protecting group which can be selectively removed in the presence of any permanent protecting groups attached to the growing peptide.

33. (Previously Presented) The process of claim 31, wherein the latent anion in the scavenging amine bears a temporary protecting group which displays a lability similar to that of the temporary protecting group present at the N-terminus of the growing peptide.

34. (Currently Amended) The process of claim 32, wherein the temporary protecting group are located on the scavenging amine is a hydrogenolytically removable groups.

35. (Currently Amended) The process of claim 34, wherein the temporary protecting groups are located on the scavenging amine is of the benzyl type.

36. (Previously Presented) The process of claim 31, wherein the scavenger is a primary amine comprising a free anion or a latent anion.

37. (Previously Presented) The process of claim 36, wherein the primary amine is a C-terminally protected amino acid derivative.

38. (Previously Presented) The process of claim 37, wherein the amino acid is  $\beta$ -alanine or a derivative thereof.

39. (Previously Presented) The process of claim 38, wherein the scavenger is benzyl  $\beta$ -alaninate or a salt thereof.

40. (Withdrawn) The process of claim 28, comprising one or more cycles wherein in step (b) a polyamine is used as the scavenger.

41. (Previously Presented) The process of claim 28, comprising one or more cycles wherein in step (b) both quenching and deprotection occur and the subsequent step (c) comprises sequential basic and neutral extractions.

42. (Previously Presented) The process of claim 41, wherein the extractions are performed in the presence of sodium chloride or potassium nitrate.

43. (Currently Amended) The process of claim 28, wherein in the last cycle in step (a) the at least one temporary protecting groups of the carboxylic component displays a similar lability to that of at least one the permanent ~~protection~~ protecting groups of that is also attached to the growing peptide and in step (b) the scavenger is a polyamine.

44. (Previously Presented) The process of claim 28, wherein the organic solvent or mixture of organic solvents is ethyl acetate or a mixture of ethyl acetate and dichloromethane, a mixture of ethyl acetate and 1-methyl-2-pyrrolidinone, a mixture of ethyl acetate and *N,N*-dimethylformamide or a mixture of ethyl acetate and tetrahydrofuran.

45. (Previously Presented) The process of claim 28, wherein the process is performed within a temperature range of 0 to 50°C.

46. (Previously Presented) The process of claim 45, wherein the process is performed at ambient temperature.

47. (Cancelled)

48. (Previously Presented) The process of claim 28, the process applied in a method for automated solution synthesis of peptides.

49. (Previously Presented) The process of claim 32, wherein the permanent protecting groups are acidolytically removable groups.

50. (Withdrawn) The process of claim 28, wherein a thiol comprising a free or a latent anion is used as a scavenger instead of an amine comprising a free or a latent anion.

51. (Withdrawn) The process of claim 28, comprising one or more cycles wherein in step (b) deprotection does not occur and the subsequent step (c) comprises sequential basic, acidic and basic extractions.

52. (Withdrawn) The process of claim 51, wherein the extractions are performed in the presence of sodium chloride or potassium nitrate.

53. (Withdrawn) The process of claim 51, comprising a subsequent step (d) which comprises deprotection and sequential basic and neutral extractions.

54. (Withdrawn) The process of claim 53, wherein the extractions are performed in the presence of sodium chloride or potassium nitrate.

55. (Previously Presented) The process of claim 28, wherein the process further comprises at least one step (d), wherein step (d) comprises a separate deprotection step, followed by one or more aqueous extractions.

56. (Cancelled)

57. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is carboxylate.

58. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is sulfonate.

59. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is sulfate.

60. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is phosphonate.

61. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is phosphate.

62. (Currently Amended) The process of claim ~~56~~ 28, wherein the anion is phenolate.

63. (Previously Presented) The process of claim 28, wherein the anion is formed under basic aqueous conditions.

64. (New) A method for combinatorial synthesis of a peptide library, wherein the process of claim 28 is used in a split and mix fashion to produce a peptide library.

65. (New) The process of claim 33, wherein the temporary protecting group located on the scavenging amine is a hydrogenolytically removable group.

66. (New) The process of claim 65, wherein the temporary protecting group located on the scavenging amine is of the benzyl type.